

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09703

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F23R3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F23R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 376 974 A (BBC BROWN BOVERI & CIE) 21 July 1932 (1932-07-21)	1,3,4,7, 8
Y	page 1, line 60 - line 86 page 1, line 104 -page 2, line 37 ---	2,5,6
Y	DE 43 43 332 A (ABB MANAGEMENT AG) 22 June 1995 (1995-06-22)	2
A	column 2, line 61 -column 3, line 27 column 3, line 43 - line 45 ---	9,10
Y	US 5 129 447 A (HAMNER LARRY D) 14 July 1992 (1992-07-14) column 1, line 10 - line 58 ---	5,6
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

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\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\* & \* document member of the same patent family

Date of the actual completion of the international search

16 December 2003

Date of mailing of the international search report

23/12/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 832 718 A (SUTTROP FRIEDEMANN) 10 November 1998 (1998-11-10) column 1, line 52 -column 2, line 10 column 2, line 52 -column 3, line 12 ---	1,9,10
X	FR 980 028 A (REGENT) 7 May 1951 (1951-05-07) page 1, column 2, paragraph 2 page 2, column 2, paragraph 1 figure 1 ---	1,3
A	US 3 398 527 A (DUMKE RICHARD M ET AL) 27 August 1968 (1968-08-27) column 1, line 54 - line 63 figure 1 ---	4
A	DE 10 25 915 B (STILL FA CARL) 13 March 1958 (1958-03-13) column 3, line 18 - line 24; figures 5-8 column 3, line 54 -column 4, line 2 -----	7,8

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09703

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 376974	A	21-07-1932	BE 382106 A DE 568050 C FR 721222 A NL 30859 C	01-03-1932
DE 4343332	A	22-06-1995	DE 4343332 A1 JP 7198142 A	22-06-1995 01-08-1995
US 5129447	A	14-07-1992	NONE	
US 5832718	A	10-11-1998	DE 19547515 A1 DE 59610235 D1 EP 0780639 A2 JP 9184628 A RU 2133849 C1	03-07-1997 24-04-2003 25-06-1997 15-07-1997 27-07-1999
FR 980028	A	07-05-1951	NONE	
US 3398527	A	27-08-1968	NONE	
DE 1025915	B	13-03-1958	NONE	